

## PATENT ABSTRACTS OF JAPAN

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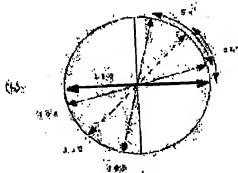
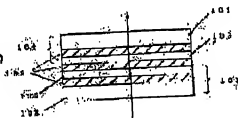
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(54) OPTICAL HEAD DEVICE

(57)Abstract:

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PROBLEM TO BE SOLVED: To provide an optical head device having a wide-band phase difference plate capable of converting (a) two beams of linearly polarized light of different wavelengths into circularly polarized light.

**SOLUTION:** The phase difference plates 104 and 107 are formed by respectively adhering double refractive films 103 and 106 via adhesive layers 102 to glass substrates 101 and 105. The wide-band phase difference plate is formed by setting the retardation value of the phase difference plate 104 at about twice that of the phase difference plate 107 and superposing the respective phase difference plates on each other in such a manner that the phase advance axial directions 108 and 109 of the respective phase difference plates intersect with each other. This wide-band phase difference plate is installed to the optical head device.



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